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25X1

November 29, 1956

25X1

(D.O.) (OK, RD-107)

Reference: Contract RD-107
Task Order No. 3

25X1

Dear Sir:

The results of measurements made on the VHF Ferrite Antenna are summarized in the inclosed schedules. These results are being sent to you without explanatory remarks for the sake of expediency, as requested by [redacted] of your office in a telephone conversation with [redacted] on November 23, 1956.

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A letter report will be issued shortly in which these results will be discussed. [redacted] also indicated on Friday that it might be desirable to delete all additional measurements on the present model of the antenna for the purpose of placing greater emphasis on Phase B of the program. If your office reaches such a decision, we would appreciate written instructions to that effect. Meanwhile, the measurements on the antenna have been discontinued according to [redacted] suggestion.

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Very truly yours,

25X1

DOC	11	REV DATE	1 APR 1950	BY	064540
ORIG COMP	056	OPI	56	TYPE	01
ORIG CLASS	S	PAGES	10	REV CLASS	C
JUST	22	NEXT REV	2010	AUTH:	HR 10-2

Contract Administration

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SUBJECT

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REFERENCE: REQUISITION NUMBER

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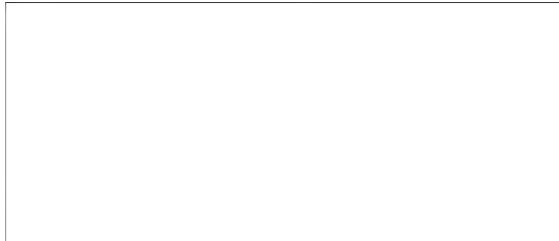
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TO: PROJECT ENGINEER, VHF FERRITE ANTENNA
DEVELOPMENT PROGRAM

The results of measurements made on the VHF ferrite antenna are summarized in the enclosed figures. These results are sent to you without explanatory remarks for the sake of expediency according to your request in our 'phone conversation of November 23, 1956. A letter report will be issued shortly in which these results will be discussed.

You also indicated Friday that it might be desirable to delete all additional measurements on the present model of the antenna for the purpose of placing greater emphasis on Phase B of the program. If your office reaches such a decision, we would appreciate written instructions to that effect. Meanwhile, the measurements on the antenna have been discontinued according to your suggestion.



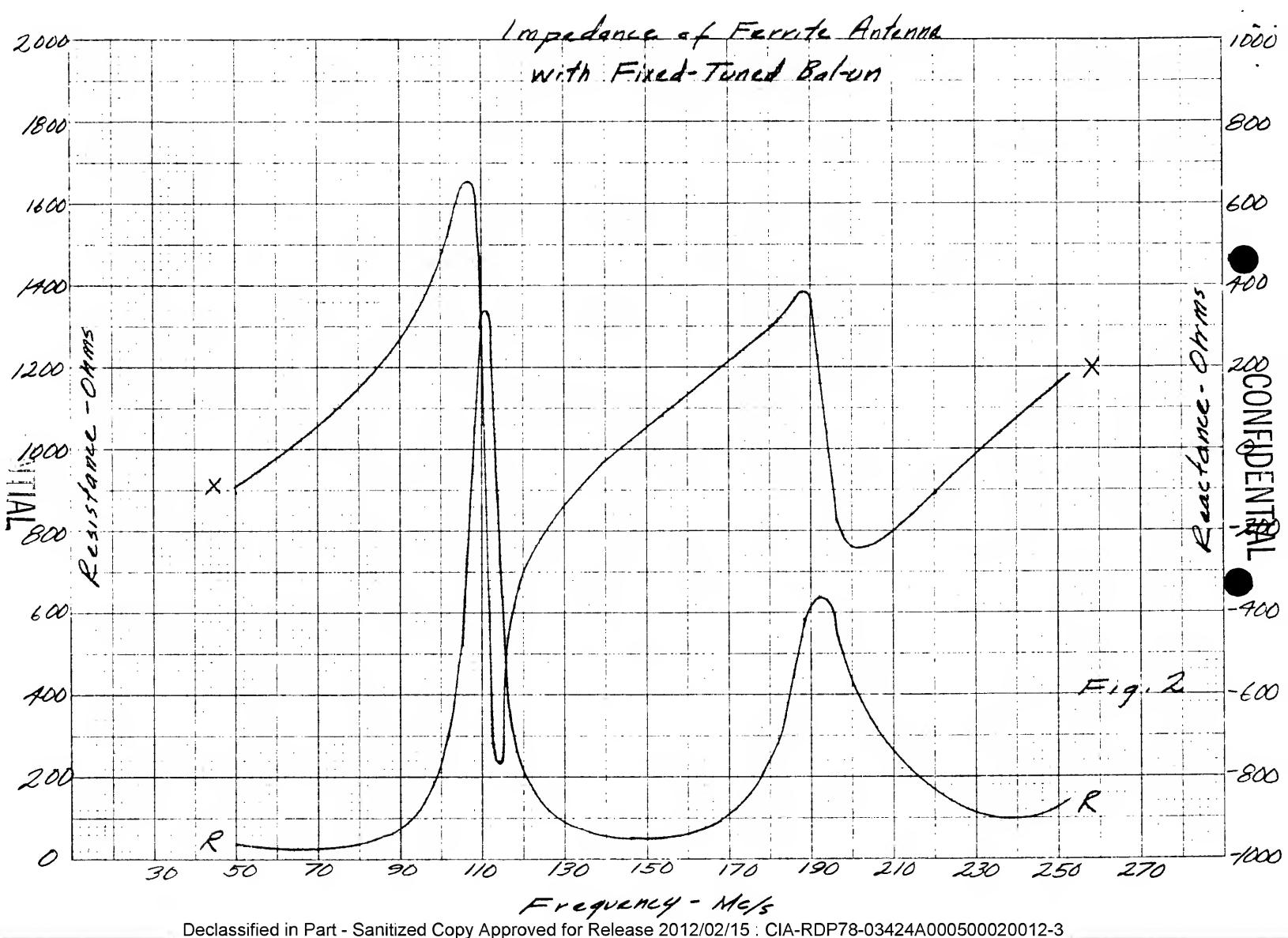
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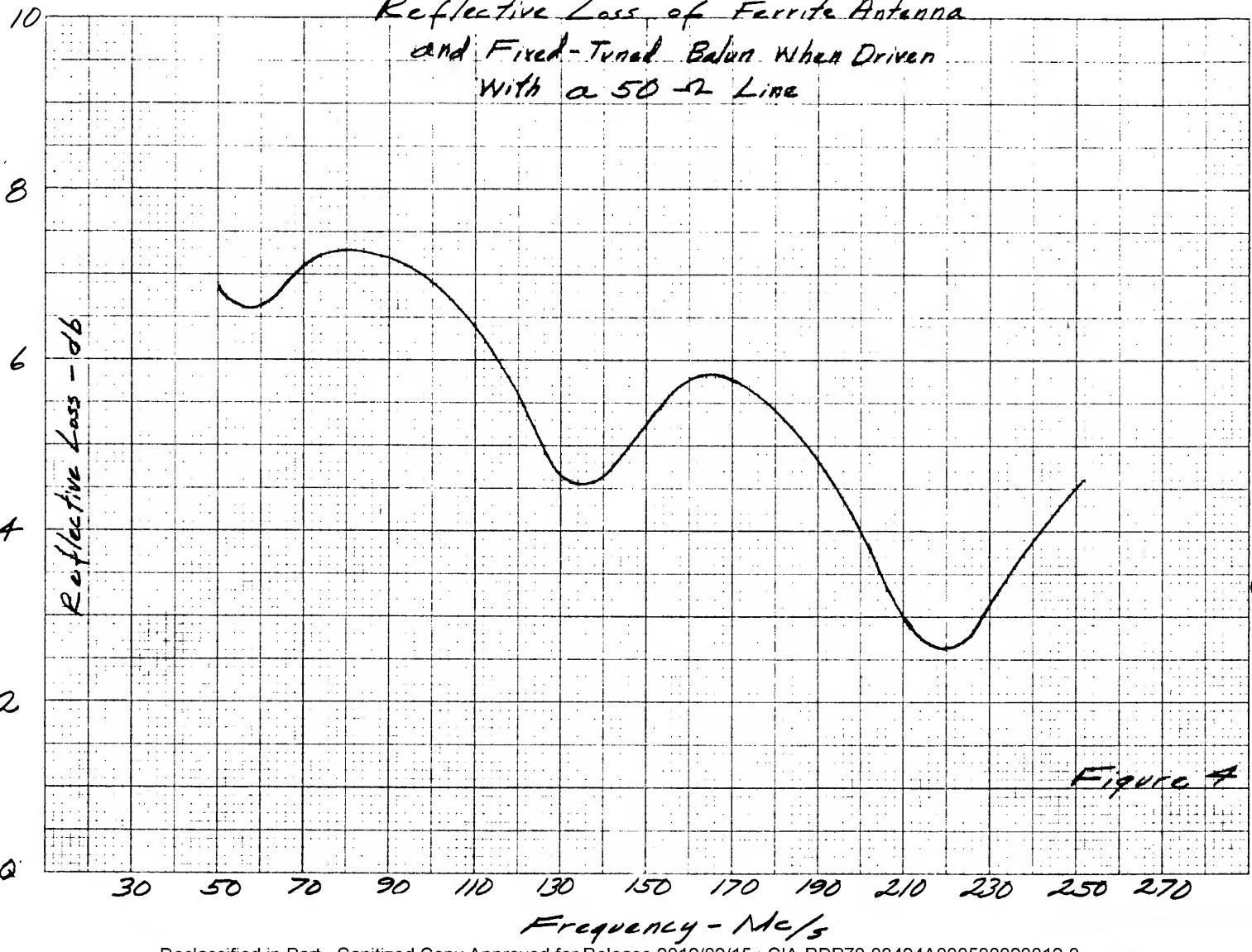
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Reflective Loss of Ferrite Antenna
and Fixed-Tuned Balun When Driven
With a 50 - Ω Line



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Ferrite Antenna

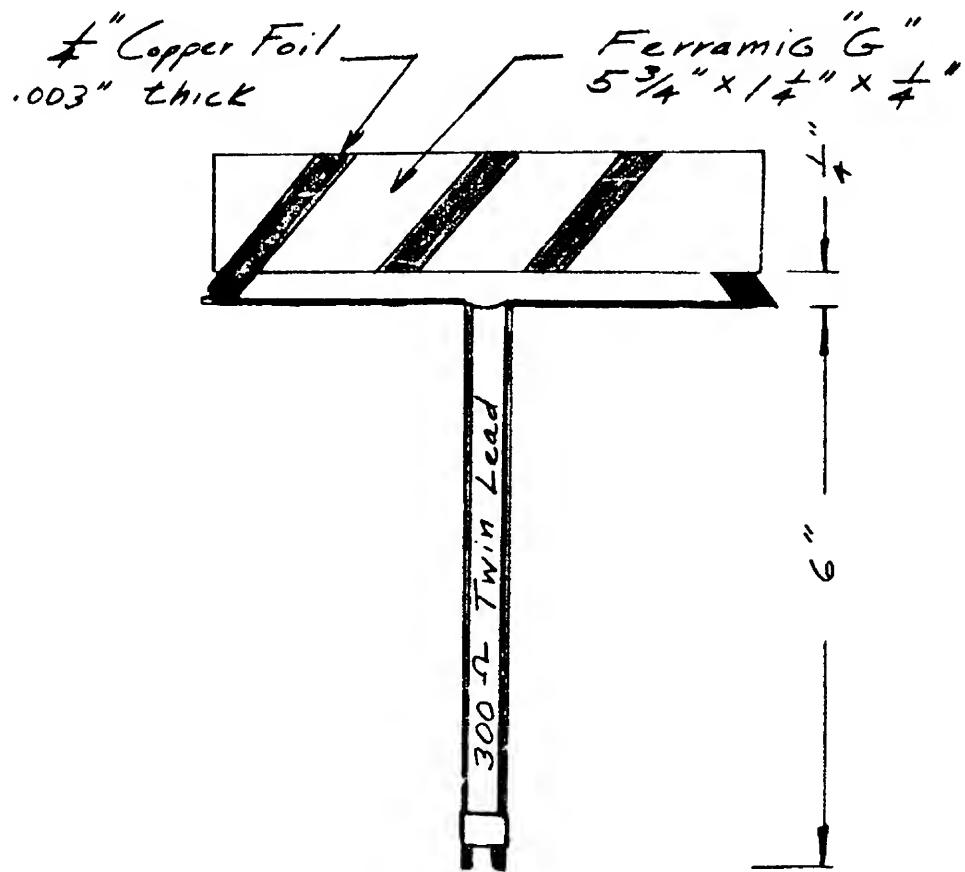
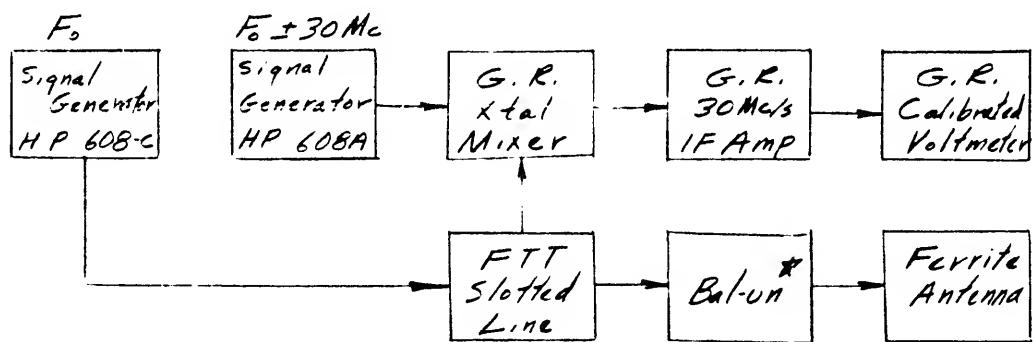


Fig. 5

Experimental Set-up for Impedance Measurements



* Fig. 1: General Radio Tuned Balun

Fig. 2: Fixed-tuned Balun

Fig 6

Fixed-Tuned Bal-un

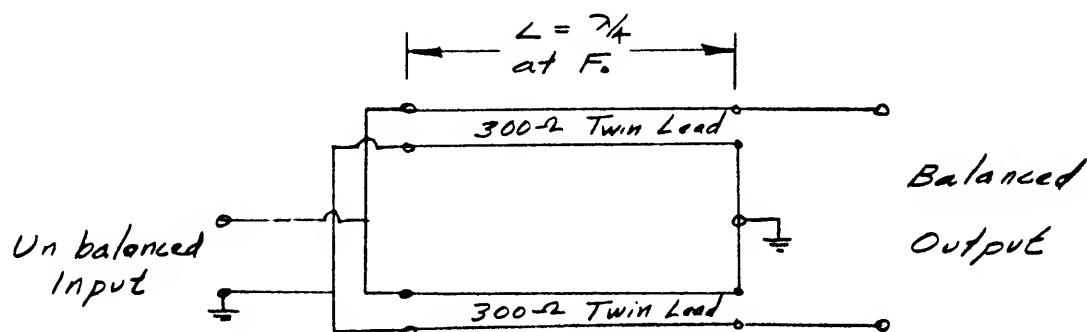


Figure 7

Experimental Set-up For Gain Measurements

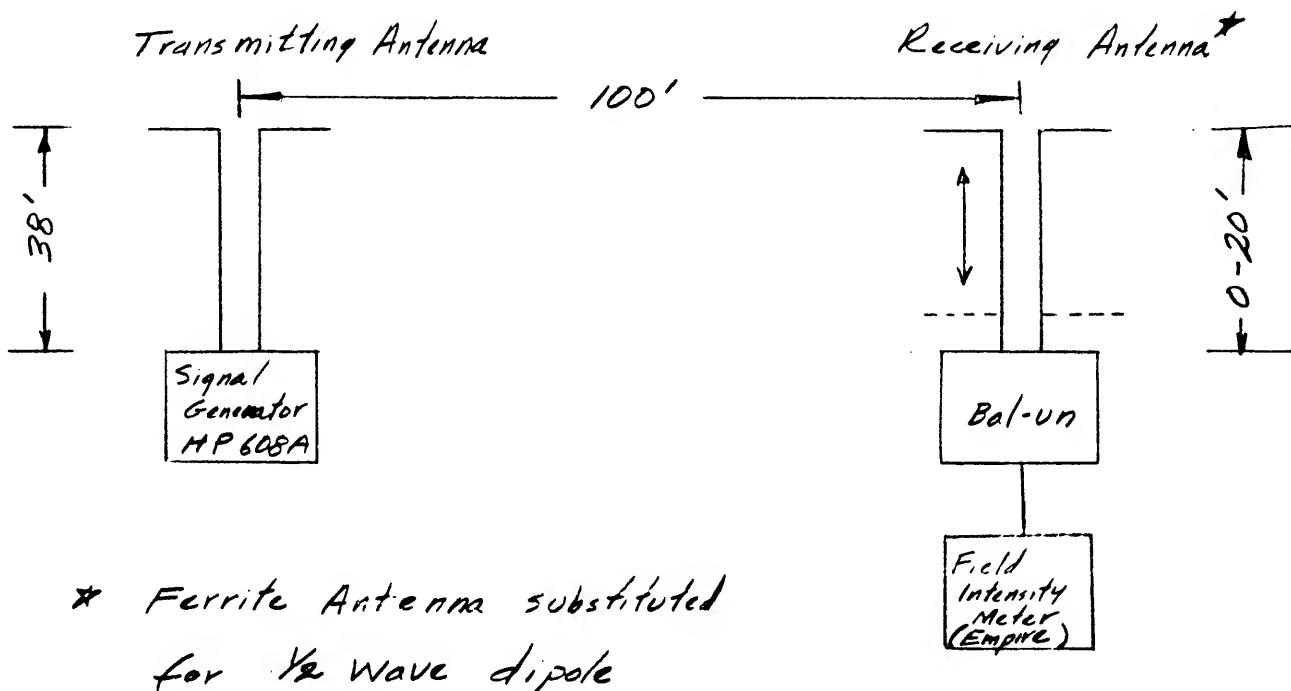


Figure 8

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Gain of Ferrite Antenna* Relative
to a Half-Wave Dipole

* With Fixed-Tuned
Bal-un

